

Search history

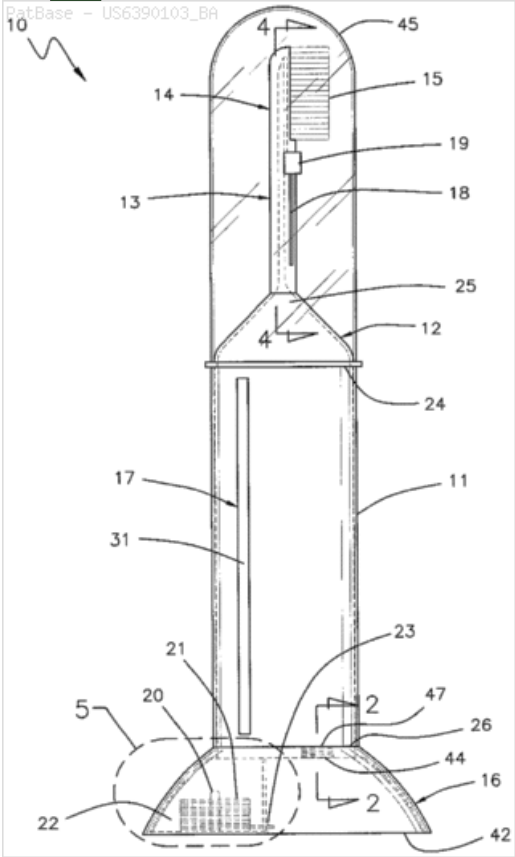
Search 1: STAC=(Toothbrush W2 (Assembl* OR dispens*)) and PD<20161219 and IC=(A46B11* OR A46B5* OR A61C15* OR B43K5*) (Results 285)
Search 2: 1 AND (FT = floss) (Results 43)
Search 3: 2 AND (FT = window) (Results 6)

Title: Toothpaste **dispensing toothbrush** having **floss** dispenser

Abstract: Source: US6390103B A dental hygiene assembly for combining a tooth brush, a toothpaste container and a dental **floss** dispenser. The dental hygiene assembly includes a main member, a head portion, a refill port and a base portion. The main member has a main chamber for containing a quantity of toothpaste. The head portion has a head chamber that is in fluid communication with the main chamber. The head portion has a plurality of bristles for brushing the teeth of a user. A plurality of bristle apertures are positioned between the plurality of bristles. The bristle apertures are selectively in fluid communication with the head chamber. The refill port is designed to couple to a standard toothpaste container to refill the main chamber. In addition, the base member contains a quantity of dental **floss**.

Classifications:

International (ipc 8-9): A46B11/00 A46B5/00 A61C15/04 (Advanced/Invention)
International (ipc 1-7): A45D44/18
CPC: A46B5/00 A46B11/001 A46B11/0096 A46B15/0071 A46B15/0097 A46B2200/1066 A61C15/043
European: A46B11/00C A46B11/00E6 A46B15/00C7A A46B15/00K A46B5/00 A61C15/04C K46B200/10G
US: 132/309 401/270



Family:

Publication number	Publication date	Application number	Application date
US6390103 BA	20020521	US20000641854	20000818

Priority:

US20000641854 20000818

Probable Assignee:

MANSO SHANNEN

Assignee(s):

MANSO SHANNEN

Inventor(s): (std):

MANSO SHANNEN

Title: **TOOTHBRUSH ASSEMBLY** WITH TOOTHPASTE DISPENSER

Abstract: Source: US2003198503A A **toothbrush assembly** includes a canister housing a spring biased piston, a cartridge for storing dentifrice (toothpaste) releasably received in the canister, and a brush head attached to a stem that is connected to the cartridge. A passage extends through the stem and connects an aperture in the brush head with an interior of the cartridge. A normally closed valve controls the flow of the dentifrice through the passage which dentifrice is pressured by the spring biased piston.

Classifications:

International (IPC 8-9): A46B11/00 A46B11/04

B43K5/06 (Advanced/Invention);

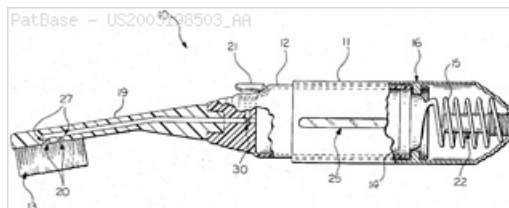
B43K5/00 (Core/Invention)

International (IPC 1-7): A46B11/04 A47L13/12 A47L13/22 B43K5/06 B43K5/10

CPC: A46B11/0017 A46B2200/1066

European: A46B11/00C5 K46B200/10G

US: 15/111 401/176 401/18 401/180 401/180S 401/195 401/27 401/270 401/270S 401/273 401/278 401/278P



Family:

Publication number	Publication date	Application number	Application date
AU2003225092 AA	20031222	AU20030225092	20030422
US2003198503 AA	20031023	US20030420384	20030422
US6729789 BB	20040504	US20030420384	20030422
US7004662 BA	20060228	US20040798113	20040311
WO03103985 A1	20031218	WO2003US12298	20030422

Priority:

US20020374422P 20020422
WO2003US12298 20030422

US20030420384 20030422

US20040798113 20040311

Probable Assignee: GORDON DAVID C

Assignee(s): (std): GORDON C DAVID ; GORDON DAVID C

Inventor(s): (std): GORDON C DAVID ; GORDON DAVID C ; DAVID C GORDON

Agent(s): BUTZEL LONG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DISPENSING BRUSH

Abstract: Source: US2005111905A A combination brush and cleaning agent is disclosed such as a combination toothbrush, toothpaste and **floss** dispenser. A soft bristle brush head, a usage paste reservoir and dental **floss**. The product is designed to use a replacement cartridge. The unit comes with a clear head cover that is vented to allow the brush to dry after use. An upper assembly that includes a clear head cover, brush head/neck, plunger button, suction plunger, spring, feed tube straw, ball check connect, and adapter, which can be threaded or a snap-lock. A lower assembly includes of an o-ring, clear paste reservoir handle, piston, stainless steel metal cleat, bottom cover, base cap with **floss** spool post and cutter. Depressing the plunger button depresses the suction plunger. This creates a suction which draws paste up from the paste reservoir past the ball check connect and into the feed tube straw which allows paste to be deposited onto the bristle brush head. Once the plunger button is released the plunger pushes up the feed tube straw so as to seal off the opening in the bristle brush head from backwash contaminates and prevents the paste from drying up. As paste is removed the piston and metal cleat travel up the paste reservoir handle creating a solid platform for the paste to push against allowing the process described above to be ready for the next use. The **floss** included in the paste reservoir handle is pulled from the base cap and cutter is then removed for use. A bottom flip cap protects the **floss** from outside elements. The combination of the suction plunger and the feed tube straw provide a positive suction to pull the paste from the paste reservoir handle while pulling up the piston and metal cleat. The paste reservoir handle to be fully replaceable, by the o-ring air is sealed off at the lower assembly and upper assembly connection.

Classifications:

International (IPC 8-9): A46B11/00 A46B11/02 A46B11/04 A46B15/00 A47L13/22 B43K29/00 B43K5/06

B43K5/12 (Advanced/Invention);

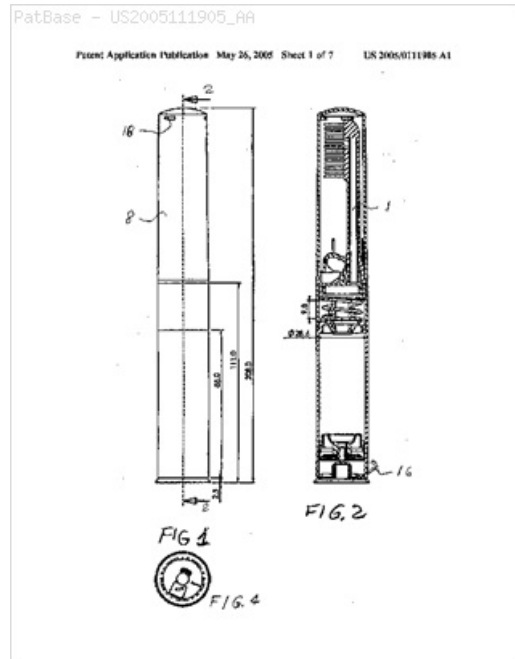
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CPC: A46B11/0055 A46B11/0072 A46B11/0096 A46B15/0071 A46B17/04 A46B2200/1066 A46B11/0065 A46B11/0089 A46B15/0061

European: A46B11/00C10 A46B11/00C6D A46B11/00E A46B11/00E2D A46B11/00E6 A46B15/00C3 A46B15/00C7A A46B17/04 K46B200/10G

US: 401/188.00R 401/188.00RS 401/188R 401/278 401/278P 401/278S 401/279 401/279P



Family:

Publication number	Publication date	Application number	Application date
CN101272714 A	20080924	CN200680000026	20060227
CN101272714 B	20120704	CN200680000026	20060227
EP1863652 A2	20071212	EP20060736122	20060227
US2005111905 AA	20050526	US20040947006	20040921
US2005147461 AA	20050707	US20050071855	20050303
US7478960 BB	20090120	US20040947006	20040921
WO05030004 A1	20050407	WO2004US30777	20040921
WO06096355 A2	20060914	WO2006US06720	20060227
WO06096355 A3	20080124	WO2006US06720	20060227

Priority:

US20030504802P 20030922 US20040947006 20040921 US20050071855 20050303
WO2006US06720 20060227

Probable Assignee: GLOVER SCOTT J

Assignee(s): (std): GLOVER J SCOTT ; GLOVER SCOTT J

Assignee(s): GLOVER J S

Inventor(s): (std): GLOVER J S ; GLOVER SCOTT J ; GLOVER J SCOTT

Inventor(s): GLOVER J

Agent(s): GARDERE WYNNE SEWELL LLP, IP SECTION; GARDERE WYNNE SEWELL LLP IP SECTION; IP SECTION, GARDERE WYNNE SEWELL LLP; IP SECTION GARDERE WYNNE SEWELL LLP

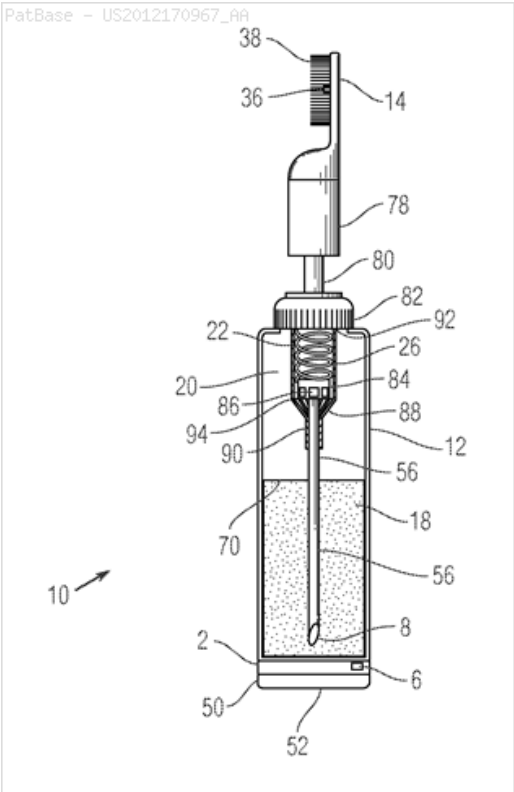
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Title: TOOTHBRUSH WITH INTERNAL **TOOTHBRUSH DISPENSER**

Abstract: Source: US2012170967A A **toothbrush** for **dispensing** toothpaste from a main body or removable cartridge to one or more openings proximate bristles on the toothpaste head. The toothbrush includes a main body which is adapted to receive a disposable cartridge, a brush head, a neck, and a pumping system. The neck and an adapter connect the head to the main body. The pumping system comprises a spring-loaded pump system for forcing toothpaste stored in the housing or disposable cartridge through a fluid passage way to the head. A piercing tube or straw is used to pierce the tight plastic seal of the disposable cartridge.

Classifications:

International (IPC 8-9): A46B11/00 A46B11/02 A46B15/00 A46B9/04 (Advanced/Invention)
CPC: A46B9/04 A46B11/002 A46B11/0065
US: 401/135 401/135P 401/188.00RS 401/188R 401/272



Family:

Publication number	Publication date	Application number	Application date
US2012170967 AA	20120705	US20120342888	20120103
US8899861 BB	20141202	US20120342888	20120103

Priority:

US20110460445P 20110103 US20120342888 20120103

Probable Assignee: FAISON RONALD L

Assignee(s): (std): FAISON RONALD L

Inventor(s): (std): FAISON RONALD L

Agent(s): PAUL; ATTENTIVE LAW

Title: DENTAL APPARATUS AND METHOD OF UTILIZING THE SAME

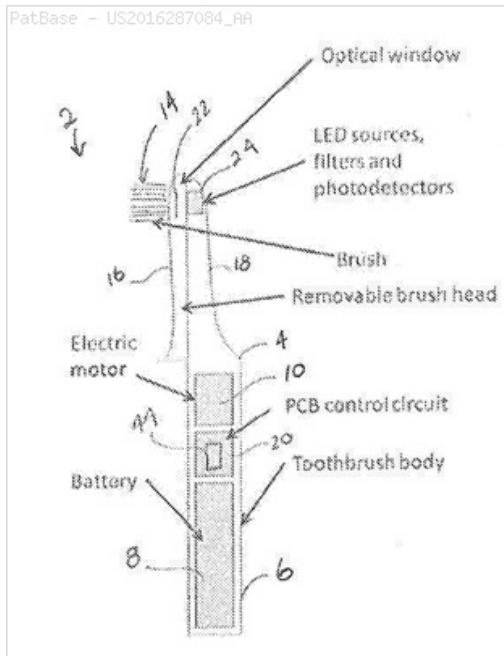
Abstract: Source: US2016287084A A dental apparatus is provided. The dental apparatus include a handle. A controller operably couples to the housing. A subsystem is in operable communication with the controller and configured to generate an excitation signal causing an emitted fluorescence light to be reflected back to the subsystem and to the controller for analyzing one or more properties of the emitted fluorescence light. The one or more properties corresponding to a decay time of the emitted fluorescence light, wherein plaque emitted fluorescence light decays faster than tooth emitted fluorescence light. The controller is programmed to analyze detected emitted fluorescence light to determine if the emitted fluorescence light is indicative of a plaque emitted fluorescence decay time or tooth emitted fluorescence light decay time to detect the presence of one of dental plaque and tooth demineralization.

Classifications:

International (IPC 8-9): A46B5/00 A46B9/04 A61B1/00 A61B1/04 A61B1/06 A61B1/24 A61B5/00 A61C17/00 A61C17/22 A61C17/34 (Advanced/Invention)

CPC: A61B5/0071 A61B5/0088 A61B5/4547 A61B5/4836 A46B9/04 A61C17/225 A46B5/0095 A61C17/34 A61B5/7257 A61B2560/0223 A61B1/043

US: 433/27



Family:

Publication number	Publication date	Application number	Application date
CN105050488 A	20151111	CN201380066686	20131217
EP2934291 A1	20151028	EP20130830048	20131217
IN04229CN2015 A	20160701	IN2015CN04229	20150715
JP2016501098 T2	20160118	JP20150548830T	20131217
RU2015129089 A	20170125	RU20150129089	20131217
US2016287084 AA	20161006	US20130442140	20131217
WO14097135 A1	20140626	WO20131B61019	20131217

Priority:

US20120739415P 20121219 US20120740797P 20121221 WO20131B61019 20131217
US20130442140 20131217

Probable Assignee: PHILIPS KONINKLL NV

Assignee(s): (std): KONINKL PHILIPS ELECTRONICS NV ; KONINKL PHILIPS NV ; PHILIPS KONINKLL NV

Assignee(s): PHILIPS ELECTRONICS KONINKLL NV

Inventor(s): (std): DEANE STEVEN CHARLES ; VERMEULEN OLAF THOMAS JOHAN ANTONIE

Agent(s): FREEKE ARNOLD; OHNUKI SHINSUKE; ITOH TADAHICO; ITOH TADASHIGE; COOPS PETER ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMPOSITION AND METHOD OF COLLAPSIBLE ORAL CARE SYSTEM WITH DENTAL CLEANER, LIQUID, LIQUID HOLDING TANK OR TUBE, LIQUID DISPENSERS, INTERDENTAL CLEANERS.

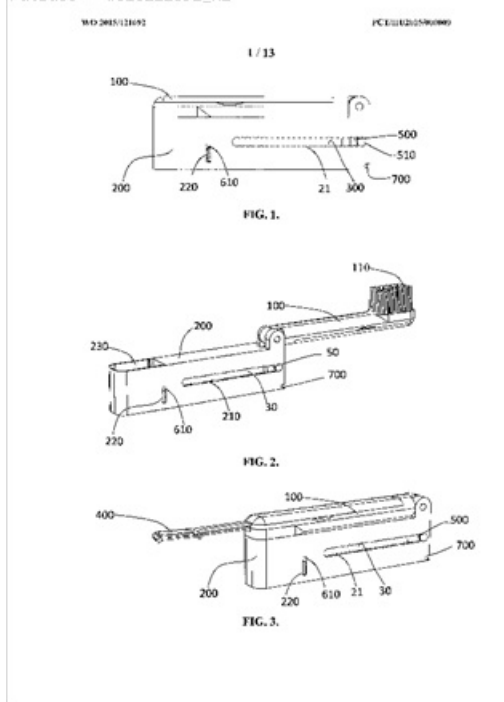
Abstract: The subject matter of the invention is a collapsible oral care system containing several oral care implements, e.g. a toothbrush, a **floss** holder, a toothpick, which are replaceable; it contains a replaceable tube within the handle of the invention, the opening of which can be closed off; the tube holds, for example, toothpaste, which can be dispensed manually while the invention is collapsed so that the toothpaste is applied from the opening of the tube directly onto the bristles; the bristles of the toothbrush are inside the handle when the implement is collapsed, and are connected to the handle by a replaceable head when the implement is open. In its various possible embodiments the invention can have: (i) replaceable bristles; (ii) the **floss** holder can have multiple filaments, multiple braches, multiple heads; (iii) interdental care can be provided by one or more replaceable dental brooms; (iv) dispensing of the liquid from the tube can be facilitated by an assisting structure; (v) the interdental implements may be in a detachable case.

Classifications:

International (IPC 8-9): A46B11/00 A46B9/04 A61C15/04 A61C17/00 (Advanced/Invention)

CPC: A46B9/04 A46B7/023 A46B11/0006 A46B11/0034 A46B11/0065 A46B15/0071 A61C15/02 A61C15/046 A46B5/0008 A46B5/0058

PatBase - WO15121692_A1



Family:

Publication number	Publication date	Application number	Application date
HU1500047 AB	20151028	HU20150000047	20150205
HU1500047 AC	20161128	HU20150000047	20150205
WO15121692 A1	20150820	WO2015HU00009	20150205

Priority:

HU20140000066 20140212 HU20150000047 20150205

Probable Assignee: SIMON PETERNE

Assignee(s): (std): SIMON PETERNE

Inventor(s): (std): SIMON PETERNE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW